

Melik-Sarkisov, B. S.
PROTECTION OF A DIRECT CURRENT TRANSMIS-
SION LINE. [1960] [9]p. 5 refs. M 1095.
Order from LC or SLA ml\$1.80, ph\$1.80 60-13900

Trans. of Nauchno-Issledovatel'skiy Institut
Postroyeniya i Eksploatatsii (USSR) 1957, v. 2,
p. 84-95.

The article is a survey of the protective devices used
in high voltage dc lines. It is based on material relat-
ing to the Kashira-Moscow dc transmission line and
on studies elaborated for the Stalingrad-Donbass
transmission line.

(Engineering--Electrical, TT, v. 5, no. 5)

60-13900

1. Transmission lines--
Equipment

- I. Melik-Sarkisov, B. S.
- II. DSIR LLU M.1095

147,044

Office of Technical Services

Reyder, A. M.
HIGH VOLTAGE DIRECT CURRENT TRANSMISSION:
THE INVERTOR COMPOUNDING DEVICE OF THE
KASHIRA-MOSCOW TRANSMISSION LINE. [1960]
[11] p. M 1096.
Order from LC or SLA ml\$2.40, ph\$3.30 60-13901

Trans. of ~~Nauchno-Issledovatel'skiy Institut~~
~~Postoyannogo Toka, Leningrad (USSR) 1957, v. 2,~~
p. 96-111.

60-13901

1. Transmission lines--USSR
2. Transmission lines--
Equipment
- I. Reyder, A. M.
- II. DSIR LLU M. 1096

147,082

Office of Technical Services

(Engineering--Electrical, TT, v. 3, no. 5)

Specific Parameters of the Equipment of the Converter
Substations of the Direct Current Transmission Line,
Kashira-Moscow, by M. G. Shekhtman, N. A. Shipulina.

RUSSIAN, per, Iz Nauch-Issled Instituta Postoyannogo
Toka, Vol III, 1958, pp 129-142.

DSIR LLU M.1507
(loan)

sci - Electricity

128,747

Oct 60

Investigation of the Operation of Shunting Devices
for the Direct Current Transmission lines, by
B. S. Melik-Sarkisov, *11 pp*

RUSSIAN, per, *Iz Nauchno-Issled Instituta*
Postoyannogo Toka, Vol III, 1958, pp 210-224.

DSIR LHM M.1509
(loan)

SLA 61-15556

Sci - Engr

Sep 60

125,583

N. A. Shipulina

Study of the bridge connection with series-connected capacitors in secondary windings of transformers.

RUSSIAN, per, Izvestiya N II Postoyannogo Toka,

№ 3, 1958

SDI trans 26382

may 72

Shipulina, N. A.
INVESTIGATION OF A BRIDGE CIRCUIT WITH
CAPACITORS CONNECTED IN SERIES WITH THE
CIRCUIT TRANSFORMER WINDING (Issledovanie
Moskovoi Skhemy s Posledovatel'nykh Vklyucheniem
Kondensatorov v Skhemykh Obmotkakh Trans-
formatorov). Sep 61 [24]p. RTS 1907.
Order from OTS or SLA \$2.60 61-28165

Trans. of N[aučno]-I[ssledovatel'skii] I[nstitut]
Postoyannogo Toka, Izvestiya (USSR) 1958, v. 3,
p. 234-254.

DESCRIPTORS: *Electric bridges, *Capacitors,
*Electric connectors, *Transformers, Design,
Equations, *Electronic circuits, Electric currents,
Alternating current, Commutators, Electrical
equipment, Voltage.

(Engineering--Electrical, TT, v. 6, no. 12) (over)

61-28165

I. Shipulina, N. A.
II. RTS-1907
III. Department of Scientific
and Industrial Research
(Gt. Brit.)

Office of Technical Services

The Main Features of a Circuit With Capacitor
Connection of the Bridge Convertors in DC
Transmission, ~~XXXXXXXX~~ by M. M. Mel'gunov.

RUSSIAN, per, Iz Ak Nauk Issled Inst
Postoyannogo Toka, No 3, 1958, pp 255-281.

NLL/RTS 1908

Sci - Electricity

Apr 62

Operation I of a Three-Phase Bridge Inverter
Fed From Two Single-Phase Transformers With
Windings Connected to Form an "Open Delta"
System, by A. M. Pintsov, Yu. S. Kraichik.

RUSSIAN, per, Iz Ak Nauk Issled Inst
Postoyannogo Toka, No 4, 1959, pp 97-113.

NLL/RTS 19623

Sci - Electron

Apr 62

Choices of Minimum Permissible Air Gaps
for Protection Against Internal Surges
in Lines Substations and Certain Equip-
ment in the 220 - 700 kV Range, by
N. N. ~~TIKHON~~ Tikhodeyev, A. N. Tushnov,

RUSSIAN, per, Iz Nach-Isled Inst
Postoyannogo Toka, No 4,
1959, pp 1245-152.

HL M. 4422

Sci - Engr
Feb 62

186,574

Operating Cycles and External Characteristics
of a Twelve-Phase Cascade-Bridge Conversion
Circuit, by M. G. Shekhtman.

RUSSIAN, per, Iz Ak Nauk Issled Inst
Postoyannogo Toka, No 5, 1960, pp 23-63.

NLL/RTS 1899

Sci - Electricity

OTS 62-13730

Apr 62

Smirnov, G. V.
 CORRECTOR FOR COMPOUNDING SYSTEM, tr. by
 L. Gradasoff. July 62 [8]p. 1 ref.
 Order from OTS or SLA \$1. 10

62-32775

Trans. of Nauchno-Issledovatel'skii Institut Posto-
 yannogo Toka, Izvestiya (USSR) 1960, v. 6, p. 149-154.

DESCRIPTORS: *Transmission lines, Attenuation,
 Distortion, Corrections, Electrical equipment.

To insure a stable and economic performance of
 inverter on d-c transmission, it is necessary to
 maintain automatically the magnitude of extinction
 angles of the valves. This article describes one of the
 several alternate designs of corrector whose purpose
 is to reset the angle of extinction when it departs from
 a predetermined value.

(Engineering--Electrical, TT, v. 10, no. 7)

62-32775

I. Smirnov, G. V.
 II. Bonneville Power
 Administration,
 Portland, Ore.

Office of Technical Services

63-12695

Koval'skaya, O. T., Lavrukhin, A. M. and others.
A COMPARISON OF CORONA LOSSES ON DC AND
AC TRANSMISSION LINES WITH IDENTICAL BUN-
DLE CONDUCTORS (Sravnenie Poter'na Koronu na
Liniyakh Peredachi Peremennogo i Postoyannogo Toka s
Odnakovymi Rasschypennymi Provodami) tr. by
G. Belkov. 1962, 9p. 10 refs. NRCC Technical
trans. 1047.

Order from NRCC \$0.50

NRCC C-4130

Trans. of Nauchno-Issledovatel'skii Institut
Postoyannogo Toka, Izvestiya (USSR) 1960, v. 6,
p. 155-163.

DESCRIPTORS: *Electrical corona, *Transmission
lines, Electric cables, Meteorology.

(Engineering--Electrical, TT, v. 9, no. 7)

- I. Koval'skaya, O. T.
- II. Lavrukhin, A. M.
- III. NRCC TT-1047
- IV. NRCC C-4130
- V. National Research Council
of Canada

Office of Technical Services

Thunderstorm Resistance Characteristics of 35
to 500 KV Electric Power Transmission Lines, by
A. V. Korsuntsev, L. Ye. Kuznetsova.
RUSSIAN, per, Izvestiya NIR Postoyannogo Toka,
No 10, 1963, pp 18-37.
CIA X-6485

Sci-Electr
Feb 68

348,838

Investigation of the Volt-Second Characteristics
of Insulator Chains, by N. M. Solomonov,
M. P. Tabardanovo.
RUSSIAN, per, Izvestiya NIR Postoyannogo Toka,
No 10, 1963, pp 38-59.
CIA X-6484

Sci-Electr
1 Feb 68

348,839

Model with 1,000 CPS Frequency for Investigating
Switching Overvoltages in AC Electric Power
Transmission, by A. V. Korsuntsev,
K. I. Pokrovskaya.
RUSSIAN, per, Izvestiya NIR Postoyannogo Toka,
No 10, 1963, pp 55-69.
CIA X-6483

Sci-Electr
Feb 68

348,840

Mathematical Statistical Method of Determination
of the Stability Reserve of Steady State Operating
Conditions of Electric Power Lines, by

U. A. Rozovsky.

RUSSIAN, per, Izvestiya NIK Postoyannogo Toka ,
No 10, 1963, pp 141-150.

CIA X-6486

Sci-Math
Feb 68

348,837

(NY-6837)

From the Experience of Converting Industrial
Enterprises to the Seven- and Six-Hour Workday
in 1956-1958, by A. L. Maksimov, 79 pp.

RUSSIAN, bk, Iz Opyta Perakhoda Promyshlennyykh
Predpriyatiy na Sem - i Shestichasovoy Rabochiy
Den' v 1956-1958 gg, 1959, pp 1-45, 110-146.

JPRS 9812

163,947

USSR

Econ

Aug 61

Dem'yanov, N. Ya. and Vil'yams, V. V. THE REACTIVITY OF UNSATURATED HYDRO- CARBONS WITH NITROUS ANHYDRIDE AND NITRIC OXIDE. THE PRODUCT OF THE ACTION OF N_2O_3 ON CYCLOPENTENE. 1940, 20p. 6 refs. Order from OTS or SLA \$1.60 63-10360 Trans. of <u>Akademiya Nauk SSSR. Otdelenie Mate-</u> <u>maticheskikh i Estestvennykh Nauk (Izvestiya)</u>, 1931, no. 7, p. 1123-1140. DESCRIPTORS: Hydrocarbons, *Cyclopentenes, *Nitrogen compounds, Oxides, Anhydrides, Chemical reactions (Chemistry--Organic, TT, v. 10, no. 2)	63-10360 I. Dem'yanov, N. Ya. II. Vil'yams, V. V. III. Title: Product... Office of Technical Services
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Experimental Investigation of Solvation of
Surfaces and Its Application to the Development
of a Mathematical Theory of Lyophile Colloids,
by B. Deryagin, M. Kusadov.

RUSSIAN, per, Iz Otdel Matemat i Esterestvennikh
Nauk, Ak Nauk SSSR, 1937, pp 1119-1150.

*FTD-TT-62-1564

Sci
Jul 63

Contribution to a Knowledge of the Fauna of the
Kara Sea, by I. D. Strel'nikov,

RUSSIAN, per, Iz Petrograd Nauch Inst imeni P. F.
Lesgafta, Vol VI, Petrograd, 1923, pp 71-80.

Navy Tr 1256/HO 310

Scientific - Geophysics;
Biology

Jan 55 CTS/DEX

29,995

TT-64-13743

Gnatovskii, V. I.
AN EXPERIMENTAL INVESTIGATION OF HEAT
TRANSFER DURING STEAM CONDENSATION IN THE
CHANNELS OF A SPIRAL HEAT EXCHANGER
(Eksperimental'noe issledovanie Teplootdachi pri
Kondensatsii Para v Kanalakh Spiral'nogo Teplo-
obmennika). Feb 64[5p] RTS-2519.
Order from OTS, SLA, or ETC \$1.10 TT-64-13743

Trans. of Politekhn[icheski] Inst[itut] Kiev. Izv[estiya]
1958, v. 28, p. 30-33.

DESCRIPTORS: *Heat transfer, *Heat exchangers,
Steam, Condensation, Heat transfer coefficients,
Velocity, Pressure, Design.

(Physics--Thermodynamics, TT, v. 11, no. 9)

I. Gnatovskii, V. I.
II. RTS-2519
III. National Lending Library
for Science and Technology,
Boston Spa (England)

Office of Technical Services

Mitrofanova

RUSSIAN, per, Iz Pulkovo Astron Obs, Vol. XIX, (152),
1954, pp. 100-102.

*PL 480
OTS 61-11437

Nov 61

Goldberg

RUSSIAN, per, Pulkovo Astron Obs Iz, Vol. 20,
1956, pp. 126-137.

*PL 480
OTS 61-11437

Nov 61

A Comparison of Three Types of Mirror Lens
Systems, by T. S. EM Belorossova.

RUSSIAN, per, *Iz Pulkova Astronomicheskaya*
A Observatoriya Komitet Sluzhby Vremeni Bulletin,
Vol XXII, No 169, 1961, pp 114-122.

*RAND Corp
(Per Miss Melhado 16/12/63)

Sci - Phys
Dec 63

Speed of Solution of Compounds of Potassium, Aluminum,
and Iron of Natural Phosphates by Mineral Acids, by
A. V. Kozakov, 26 pp.

RUSSIAN, per, Iz Rezul't Veget Opytov Lab Rabot, Vol
IX, 1913, pp 21-45.

SLA R-2880

Sci

Jul 59

92,602

Softening and Bending of Carton at High Temperatures,
by I. S. Plotnikov, 8 pp.
UNCLASSIFIED

Full translation.

RUSSIAN, per, Iz Ross Ak Nauk, Vol XI, Petrograd,
1917, pp 883-890.

Navy Tr 610/NRL 349

Jun 52 CTS

Scientific - Engineering

DEX

Anal AIC NAUK

Transformations in the Middle Part of the
System Along (excerpts), by N. S. Kuenikov,
N. I. Mikhayeva, 17 pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal Inst Obshch
Nauchn Khim Ak Nauk SSSR, Vol XIII, 1940,
pp 209-224.

AEC/SCL-T-244

Sci - Chem

Jan 59

88, 895

Electrical Conductivity of the System $H_2SO_4-H_2O$. V.
by P. Ustachkin, A. M. Zhdanov, 7 pp.

RUSSIAN, per, Iz Sektora Fiz-Khim Anal Inst Obshch
i Neorg Khim, Vol XIV, 1941, pp 205-210.

SLA R-3336

Sci

Aug 59

93, 614

Area of Solid Solutions of Potassium and Ammonium
Phosphates in an Aqueous System of $\text{NH}_4\text{H}_2\text{PO}_4$, KCl
 KH_2PO_4 , NH_4Cl at 0° , by M. I. Ravich, Z. V. Popova,
18 pp.

RUSSIAN, par, Iz Sektora Fiz Khim Anal Inst Gosteh
i Nauchg Khim, Vol XIV, 1941, pp 373-386.

SLA R-3337

Sci

Aug 59

93,606

Lengauer, D.

CONCERNING THE MANUFACTURE OF A NEW
TYPE OF POTASSIUM RAW MATERIAL INTO
POTASSIUM CHLORIDE, POTASSIUM MAGNESIUM
SULFATE AND POTASSIUM SULFATE. [1963] 43p.
16 refs.

Order from OTS or SLA \$4.60

63-14645

Trans. of [Akademiya Nauk SSSR, Sektor Fiziko-
Khimicheskogo Analiza, Izvestiya] 1941, v. 14,
p. 411-430.

DESCRIPTORS: *Potassium compounds, Magnesium
compounds, Chlorides, Sulfates, Manufacturing
methods, Rock salt, Solvent action, Crystallization,
Decomposition, Fertilizers.

The possibility is demonstrated of reprocessing of a
new type of potassium raw material into products used
(Engineering--Chemical, TT, v. 10, no. 7) (over)

63-14645

1. Title: Langbeinite
2. Title: Kainite
1. Lengauer, D.

Office of Technical Services

on the Energy of Mixing and Energy of Arrangement of
Solid Solutions, by B. Ya. Pines, 6 pp.

Full translation.

RUSSIAN, Iz Bek Fiz-Khim Anal. Inst Obsh 1
Year Khim, 1943, Vol XVI, No 1, pp 64-67.

Sci Mus Lib No 52/3270

Scientific - Chemistry

7 December 1952

The Decomposition of the Solid Solution of Silver in
Aluminum, by N. V. Ageev, M. A. Skriabina,

RUSSIAN, per, Iz Sek Fiz-Khim Anal., No 15, 1947,
pp 80-87

Fulmer Research Institute No 3

Scientific-Chemistry 60,680

Fusion Diagram of the Quaternary Reciprocal System
 NH_4 , K// Cl, No 3, H_2 PO_4 , by A. G. Bergman, V. P.
Radishchev, I. N. Nikonova, 39 pp.

RUSSIAN, per, Izvest Sektora Fiz-Khim Anal ^{1st} ~~1st~~
Obshchei i Neorg Khim Akad Nauk SSSR, Vol XV, 1947, ^{103 pp}
pp 200-233.

SLA R-3051

NL: 11/1/51

Sci

Jul 59

92, 391

Solid Solutions of Potassium and Ammonium Phosphates, by N. S. Kurnakov, A. Y. Zvorykin, V.Y. Kerkovich. 27 pp.

RUSSIAN, Ser, Invest Sektor Fiz Khim, Akad Inst
Obshchei i Neorg Khim, Akad Nauk SSSR, Vol XVI,
No 3, 1948, pp 108-126.

SLA R-2032

Sci

Jul 59

92, 348

New Method for the Study of the Bending Strength
of Metallic Systems at High Temperatures, by
I. I. Kornilov, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektor Fiz-Khim,
Anal, Vol XVIII, 1948 (?), pp 72-82.

25,180

Sci Mu Lib Tr 55/0925

Scientific - Physics

Jul 55 CTS

The Flexural Strength of Aluminum-Magnesium Alloys
at 300°C, by I. I. Kornilov, A. A. Azovskaya,
3 pp,

RUSSIAN, per, *Sektor Fiz-Khim Anal*
Iz Ak Nauk SSSR, Vol XVIII, 1948,
pp 83-85. 1

23,555 Sci Mu Lib Tr No 55/0382

Scientific - Min/Metals

May 55 CTE

Topology of Reciprocal Complex Formations in
Ternary and Quaternary Systems, by A. G. Bergman,
G. A. Bukhalova, 15 pp.

RUSSIAN, per, IZ Sektora Fiz Khim Anal Inst
Obshch Neorg Khim Ak Nauk SSSR, Vol XIX, 1949,
pp 33-50.

ABC Tr 2421

33,259

Sci - Chemistry, Physics
Apr 56

62-14847

Klochko, M. A.
THE ANALOGY BETWEEN THE PHASE RULE AND
EULER'S THEOREM FOR POLYHEDRONS. [1962] 12p.
10 refs.
Order from OTS or SLA \$1.60 62-14847

Trans. of Akad[emiya] Nauk SSSR. Sektor Fiz[iko]-
Khim[icheskogo] Anal[iza. Izv[estiya] 1949, v. 19,
p. 82-88.

DESCRIPTORS: *Geometric forms, Phase studies,
*Chemical equilibrium, Physical chemistry, Chemical
analysis, Algebraic topology, Analysis.

The analogy between the mathematical formulation of
the phase rule and Euler's theorem is purely one of
form based on the similarity of certain algebraic
groupings. Nevertheless, the study of topological rules,
such as Euler's theorem, inherent in phase diagrams is
useful for the profound understanding of chemical equi-
libria. (Author)

1. Title: Euler's theorem
1. Klochko, M. A.

(Chemistry--Physical, II,
v. 9, no. 5)

Office of Technical Services

The Chemistry of Multicomponent Systems, by A. G. Bergman, 15 pp.

RUSSIAN, per, Iz Sektora Fiz-Khim Analiza Ak Nauk, SSSR, Vol XIX, 1949, pp 113-119.

Sci Trans Center
FT-2196

Scientific - Chemistry Feb 55 CTS/DEX

21,480 SLA R-270

On the Characteristic Properties of the Chemical
Diagrams of the Stable Elements of Ternary and
Quaternary Reciprocal Systems, by A. P. Palkin,
12 pp.

RUSSIAN, per, Is Sektora Fiz Khim Anal Inst
Obshch Neorg Khim Ak Nauk SSSR, Vol XIX, 1949,
pp 120-125.

AEC Tr 2422

33,260

Sci - Chemistry, Physics
Apr 56

Some Comments on the Effect of the Degree of
Dispersion and Density of Phases Upon Equilibrium,
by V. A. Kireyev, 13 pp. UNCLASSIFIED

RUSSIAN, per, Iz. Sektora Fiz. - Khim. Anal, Inst
Obshch. Neorg. Khim, Ak. Nauk SSSR, Vol XIX, 1949,
pp 134-143.

19,543

AEC-Tr-1967

SLAR-3041

Scientific - Chemistry

54
Nov 54 1967/1967

Electric Conductivity, Viscosity and Density
of the Fused Binary Salt Systems With a Simple
Eutectic, by I. P. Vereshchetina, N. P.
Lushnaja, 33 pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal Inst
Obshch Neorg Khim Ak Nauk SSSR, Vol XIX, 1949,
pp 188-207.

AEC Tr 2423

RT-1754
33,261

Sci - Chemistry, Electricity

Apr 56

Yanat'eva, O. K.

INVESTIGATION OF EQUILIBRIA IN THE MARINE SYSTEM K, Na, Mg // Cl, SO₄--H₂O, PT. 1 (Issledovanie Ravnovesii v Morskoi Sisteme K, Na, Mg // Cl, SO₄--H₂O pri 25°). [1962] [34]p. (foreign text included) 19 refs.

Order from OTS or SLA \$3.60

62-16438

Trans. of Akademiya Nauk SSSR. Sektor Fiziko-Khimicheskogo Analiza. Izvestiya, 1949, v. 17, p. 370-382.

DESCRIPTORS: Minerals, *Crystals, *Potassium, *Sodium, *Magnesium, Chlorides, Sulfates, Hydrates, Chemical equilibrium, Fertilizers.

The 25° solubility isotherm was studied of the quaternary system K₂SO₄—Na₂SO₄—MgSO₄—H₂O, which enters into the composition of the five-component marine system K, Na, Mg || Cl, SO₄—H₂O. The (Earth Sciences--Mineralogy, TT, v. 8, no. 10)(over)

62-16438

1. Title: Marine systems
- I. Yanat'eva, O. K.

Office of Technical Services

The Activity of Solution Components in Liquid Hydrogen Fluoride; The Activity of Fluorides of the Alkali Metals in Liquid Hydrogen Fluoride; The Activity of Hydrogen Fluoride in Solutions of Ammonium Salts, by N. S. Nikolayev, I. V. Tannayev, 7pp; 12pp; 13pp, (42 Pp.)

RUSSIAN, per, Iz Sektora Fiz.-Khim. Anal Akad Nauk SSSR, Vol XX, 1950, pp 184-195; 196-203; 204-211.

R/236

AEC Tr No 1996

Scientific - Chemistry Feb 55 CTS

The Solubility of Dolomite in Aqueous Salt Solutions,
by O. K. Yanat'eva.

RUSSIAN, per, Iz. Sektora Fiziko-Khimicheskogo Analiza
Instituta Obshch i Neorganicheskoi Khim, Vol XX, 1950,
pp 252-258.

36,107
Assoc Tech Serv RJ-361

Scientific - Chemistry

Jun 56/dax

Drakin, S. I.

A NEW METHOD OF SEGREGATING EUTECTIC ALLOYS [Paper] presented at All-Union Conference of Physico-Chemical Analysis (no. 2) 31 Jan 50. [1962] 9p. 3 refs.

Order from QIS or SLA \$1.10

62-18910

Trans. of Akademiya Nauk SSSR, Sektor Fiziko-Khimicheskogo Analiza, Izvestiya, 1950, v. 20, p. 341-344.

Another trans. is available from LC or SLA ml\$1.80, ph\$1.80 as 61-10290 [1960].

DESCRIPTORS: *Bismuth alloys, *Cadmium alloys, Separation, Tin alloys, *Eutectics.

For abstract see Technical Translations 5: 180, 1961.

(Chemistry--Physical, TT, v. 9, no. 3)

62-18910

I. Drakin, S. I.

II. Title: All-Union. . .

Office of Technical Services

Thermographic Method of Determining Heat Effect,
by A. F. Kapustinskiy, Yu. P. Barskiy.
RUSSIAN, per, Iz Sektora Fiz-Khim Anal, Ak Nauk SSSR,
Vol XX, 1950, pp 317-325. 9595962
DDC-RSIC-362

Sci - Phys
Mar 65

275,027

Solubility Isochrones-Isotherms of
Apatite in the System $H_2SO_4-H_3PO_4-H_2O$ as Example of Topochemical Kinetics,
and the Production of Superphosphate, by
E. B. Brutskus and M. L. Chepelevetskiy,
7 pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal,
Ak Nauk SSSR, Vol XX, 1950, pp 383-388.

SLA R-2261

Sci

Aug 58

72,159

The Decomposition of Solid Solutions in
Phosphorus-Sulfur Systems, by V. V. Illarionov,
T. I. Sokolova, 5 pp.

RUSSIAN, per, Iz Sektora Fiz Khim, Anal Akad Nauk
SSSR, Vol XXI, 1952, pp 153-158.

CIA/FDD/XX-46

Scientific - Chemistry

Jan 56 CTS/DEX

IAC INTERNAL USE ONLY

30,367

Study of the $\text{BiCl}_3 + 3\text{Ag} \rightleftharpoons 3\text{AgCl} + \text{Bi}$ System, by
T.I. Sokolova, 23³pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal, Inst
Obsschei Neorg Khim, Ak Nauk BSSR, Vol XXI, 1952,
pp 210-221.

159-171.

28A R-5494
ABC Tr 3168

Sci - Chem

May 58

62,641

Bergman, A. G. and Bukhalove, G. A. THERMOCHEMICAL INTERRELATIONS IN TERNARY RECIPROCAL SYSTEMS WITH COMPLEX FORMATION. [1962] 40p. Order from K-H \$50.00 Trans. of [Akademiya Nauk SSSR], Sektor Fiziko- Khimicheskogo Analiza, Izvestiya, 1952, v. 21, p. 228-249. DESCRIPTORS: *Thermochemistry, *Complex compounds. (Chemistry--Physical, TT, v. 9, no. 11)	64-16452 63-12947 I. Bergman, A. G. II. Bukhalove, G. A. III. K-H-5035-a IV. Kresge-Hooker Science Library Associates, Detroit, Mich. Office of Technical Services
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The Solubility of Calcite in the Presence of CO_2 and
NaCl, by E. B. Shternin, E. V. Frolova.

RUSSIAN, per, Iz Sektora Fiziko-Khimicheskogo Analiza
Instituta Obshch i Neorganicheskoy Khim, Vol XII, 1952,
pp 271-287.

36, 114
Assoc Tech Serv RJ-379

Scientific - Chemistry

Jun 56/dex

Investigation of the Melting Point Diagram of
the Boron-Carbon System and Nature of Phases
in This System, by G. A. Merson, G. V. Samsonov,
17 pp.

RUSSIAN, per, Is Sektora Fiz Khim Anal Inst
Obshchest Nauch Khim, Ak Nauk SSSR, Vol XXII,
1953, pp 92-103.

ABC Tr 3317

Sci - Chem

73, 954

Sep 58

On the Hardness of Refractory Carbides, by G. A.
Meerson, Ye. S. Uman'skiy, 7 pp.

RUSSIAN, per, Iz Sektora Fiz. Khim. Anal. Inst. Obshch.
Khim., Akad. Nauk SSSR, Vol. XXII, 1953,
pp. 108-110.

ABC Tr 3629

Sci - Chem

May 59

86,974

Blidin, V. P.
A RECIPROCAL SYSTEM OF CHLORIDES AND
NITRATES OF RUBIDIUM AND CESIUM. [1963] 13p
(figs omitted) Srefs
Order from ODS, SLA, or ETC \$1.60 TT-64-1495

Trans. of Akademiya Nauk SSSR, Sektor Fiziko-Khim-
icheskogo Analiza, Izvestiya, 1953, v. 23, p. 233-240.
(Abstract available)

DESCRIPTORS: *Fused materials, Salts, *Rubidium
compounds, *Cesium compounds, *Chlorides, *Nitrates,
Phase studies, *Complex compounds.

Investigation was made by the visual-polythermic
method, of the binary systems: $\text{RbNO}_3\text{-CsNO}_3$,
 $\text{CsNO}_3\text{-CsCl}$, $\text{RbNO}_3\text{-RbCl}$, $\text{LiNO}_3\text{-CsNO}_3$, and
 $\text{LiNO}_3\text{-RbNO}_3$. The complex compounds α in
(Chemistry--Physical, TT, v. 11, no. 11). (over)

TT-64-1495

V. P. Blidin.

Office of Technical Services

Solubility Isotherm of the System $\text{Na}_2\text{SO}_4\text{-Na}_2\text{CO}_3\text{-NaCl-NaOH-H}_2\text{O}$ at 25° , by L. S. Itkina, V. F. Kokhova.

RUSSIAN, per, Izvest Sektora Fiz Khim Anal
Akad Nauk SSSR, Vol XXIII, 1953, pp 284-299.

Assoc Tech Div RJ-525
\$13.10 (\$5.15)

Sci + Chemistry
Apr 1957 CTS/dex

46,784

030

Systematization of Binary Intermetallic Phases, by
P. I. Kripyakevich, E. E. Cheremashin, 82 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Sektora Fiziko-
Khim Analiza, Vol XXIV, 1954, pp 59-123. 9696764
FTD-TT-65-1018

Sci - Phys
May 65

280,437

The Alloys of Nickel and Zirconium, by S. A.
Pogodin, V. I. Skorobogatova.

RUSSIAN, per, Invest Sekt Fiziko-Khimich Analiza,
Vol XXV, 1954, pp 70-80.

~~*AEC~~

Sci - Min/met
Feb 58

ATC RJ-917

Ditto - also

Properties of the System of Borides of Titanium
and Zirconium, by B. A. Meyerson, G. V. Samsonov,
N. D. Kotel'nikov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektor Fiz i Khim
Analiza, Vol XXV, 1954, pp 89-93.

LC or SLA 59-10096

Sci - Chemistry
Feb 59

1.80

81,548

The Chemical Nature of the Sigma Phase in the
Iron-Chromium System, by A. T. Grigor'ev,
N. M. Gruzdeva, I. A. Bondar,

RUSSIAN, per, Iz ~~Sov~~ ~~Sekt.~~ Fiz -Khim Anal,
Vol XXI, 1954, pp 132-143.

25,289

Brutcher Tr 3454
#5.80

Scientific - Min/Metals

Jul 55 CTS

Phase Equilibria in the System $\text{NaCl-NaOH-H}_2\text{O}$ at
High Temperatures, by M. I. Ravich, et al.

RUSSIAN, per, Iz Ak Nauk SSSR Sektora Fiz-Khim
Anal, Inst Obshchei i Neorg Khim, Vol XXIV, 1954,
pp 280-293.

ATS RJ-2048

Sci - Chem
Dec 59

104,055

The Alloy of Nickel and Zirconium, by S. A.
Fegodin, V. I. Skorobogatova.

RUSSIAN, per, Iz Sekti Fiziko-Khimich Analiza,
Vol. XXV, 1954, pp 70-80.

AKC RJ-517

Sci - RU/RSC

Jul 59

91,072

Some Physico-Chemical Properties of Systems Formed
by Titanium and Zirconium-Borides, by G. A. Meyerson,
G. V. Samsonov, R. B. Kotelnikov. UNCLASSIFIED

RUSSIAN, per, Iz Sek Fiz-Khim Anal Ak Nauk SSSR,
Vol XXV, 1954, pp 89-93.

Sci Mus Lib 57/4487

Sci - Phys; Chem
Zas Sep 58

73,363

The Existence of the Equilibrium Solid Phase $K_2CO_3 \cdot Na_2CO_3$ in the System $K_2CO_3-Na_2CO_3-H_2O$ at Temperatures Above 1000° , by M. I. Ravich, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektora Fiz-Khim Anal, Inst Obshchei Neorg Khim, Vol XXV, 1954, pp 350-360.

ATS RJ-2047

Sci - Chem
Dec 59

104,054

Critical Phenomena and Type XI Phase Transitions,
by V. K. Semenchko. UNCL

RUSSIAN, per, Ia Sektora Fiz-Khim Anal AN SSSR,
Vol XXVI, 1955, pp 56-61.

DSIR LIJ RTS 1221

(12s. (3s.))

Sci - Phys
Des 59

102,499

Belova, V. I. and Patuskova, N. N.
MAGNETIC STUDY OF DOUBLE SALTS $\text{Me}^1 \text{Hl} \cdot \text{ZnSO}_4$
[1962] 11p.

Order from K-H \$13.65

K-H 5866 d

Trans. of [Akademiya Nauk SSSR] Sektor Fiz[iko] -
Khim[icheskogo] Analiza. [Izvestiya], 1955, v. 26,
p. 132-137.

DESCRIPTORS: Salts, Metals, *Zinc compounds,
*Sulfates, Magnetic properties.

(Chemistry--Physical, TT, v. 9, no. 11)

63-12941

- I. Belova, V. I.
- II. Patuskova, N. N.
- III. K-H-5866-d
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

TT-64-18402

Office of Technical Services

Physico-Chemical Investigation of the Fused
 $\text{AgNO}_3\text{-KNO}_3$ System, by V. D. Polyakov, 16 pp.

RUSSIAN, per, Is Sektora Fiz Khim Anal Inst
Obshch Neorg Khim Ak Nauk SSSR, Vol XXVI,
1955, pp 147-155.

AEC Tr 2480

36,588

Sci - Chemistry

Jul 1956

Electric Conductivity of the Binary $\text{LiNO}_3\text{-RbNO}_3$
and $\text{AgNO}_3\text{-RbNO}_3$ Systems in Fusions, by P. I.
Protsenko, 13 pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal Inst.
Obshch Neorg Khim Ak Nauk SSSR, Vol XXVI, 1955,
pp 173-199.

AEC Tr 2484

Sci - Chemistry

36,586

Jul 1956

Physico-Chemical Investigation of the Fused
 $\text{AgNO}_3\text{-HgI}_2$ System, by V. D. Polyakov,

RUSSIAN, per, Iz Sektora Fiz Khim Anal Inst
Obshch Neorg Khim Ak Nauk USSR, Vol XXVI,
1955, pp 191-197.

AEC Tr 2481

Sci - Chemistry

36,589

Jul 1956

The Phase Transition Diagram of the System $H_2O-H_2O_2$,
by K. E. Mironov, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz-Khim Anal,
Vol XXVI, 1955, pp 215-223.

CIA/FDD Z-247

Sci - Electronics, physics,
chemistry

39,508

PC 514 TR 863

Phase Equilibria in the $\text{Na}_2\text{SO}_4\text{-NaOH-H}_2\text{O}$
System at High Temperatures, by M. I.
Ravich.

RUSSIAN, per, Izvestiya Akad Nauk SSSR
Sektor Fiz. Khim Anal, 1955, Vol 26,
pp 229-241.
MLL 9022.09 1964 (3575) (On Loan)

Aug 65

286,474

Nature of the Solid Phase which Crystallizes from
Aqueous Solutions of Trisodium Orthophosphate at
High Temperatures, by ~~M.~~ I. Ravich, L. G.
Sheherbakova.

RUSSIAN, per, Izvest Sektora Fiz-khim Anal, Inst
Obshchei i ~~Org~~ Khim, Akad Nauk SSSR, Vol XXVI,
1955, pp 248-258.

ATS RJ-1689

Sci - Chem

Jul 59

90, 857

Solubility Isotherms at 0 and 55° in the
System Ca, Mg CO₃, SO₄-H₂O, by O. K. Yanat'eva,
4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sektor Fiz Khim
Anal, Vol XLVI, 1955, pp 266-269.

ATS RJ-1584
Assoc Tech Serv 18K27R
5.75

Sci - Chem
OTS I, 4
Apr 59

85, 242

Solubility Isotherm at 0° for the System $\text{HF}-\text{CrO}_3-\text{H}_2\text{O}$,
by N. S. Nikolayev, Yu. A. Buslayev.

RUSSIAN, per, Izvest Sektora Fiz-Khim Anal, Inst
Obshchei i Org Khim, Akad Nauk SSSR, Vol XXVI,
1955, pp 270-274.

ATS RJ-1683

AEC - 6 - 3733

Sci - Chem

Jul 59

90,856

Solubility of Oxides of Metals in Fused Salts
by N. K. Voskresenskaya, G. N. Kashcheev.
RUSSIAN, per, Iz Ak Nauk SSSR Sektora
Fiziko Khimicheskogo Analiza, Vol XXVII,
1956, pp 255-267.
SAL TT 64-20199

Apr 67

323,084

by D. I. Ryabchikov.
RUSSIAN, per, Izvestiya Akademiy Nauk SSSR,
Sektora Platiny, No 22, 1948, pp 35-42.
9232725
AEC UCRL-tr-10,013

Sci/M&M
Jun 66

302,473

Crystal Structures of Compounds of the Platinum
Group Metals. Structures of RhF_3 , PdF_2 -- Type
 FeF_3 , AlF_3 , by N. V. Belov, 5 pp.

RUSSIAN, per, Iz Sektora Platiny i Drug Blagorod
Metal Inst Obshch Neorg Khim Ak Nauk SSSR,
Vol XVIII, 1945, pp 159-161.

AEC Tr 2214

Scientific - Minerals/Metals
Chemistry

CTS 73/Oct 1955

27,150

Hardness and Microstructure of Iron-Iridium
Alloys, by V. A. Nemilov, T. A. Vidusova, 10 pp.
RUSSIAN, per, Izv Sektora Platiny i Drugikh
Blagorodnykh Metallov, Institute Obshchei
Neorganicheskoy Khimii, Akad Nauk SSSR, No 20,
1946, pp 240-244.
AEC/UCRL-Tr-10450-70

Sci/Mater
May 70

Polymorphic Transformations of Rhodium, by
A. A. Rudnitskiy, et al.
RUSSIAN, per, Izvestiya Sektora Platiny, Akademiya
Nauk SSSR, No 29, 1955, pp 183-189.
NASA TT F-14,037

Mar 72

Investigation of the Thermoelectric Properties of
Palladium-Rhodium Alloys, by A. A. Rudnitskiy, 10 pp
RUSSIAN, per, Izv. Sektora Platiny, Akad. Nauk SSSR,
No 29, 1955, pp 190-196
NASA TT F 14,036

mar 72